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               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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=> index bioscience
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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
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74 FILES IN THE FILE LIST IN STNINDEX

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=> proteins p (heating and cooling and cycle)
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  25 FILES SEARCHED...
  33 FILES SEARCHED...
  54 FILES SEARCHED...
  72 FILES SEARCHED...

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L1    QUE PROTEINS P HEATING AND COOLING AND CYCLE

=> proteins and heating and cooling and cycle
           1    FILE AGRICOLA
           2    FILE ANABSTR
           2    FILE BIOBUSINESS
           1    FILE BIOENG
          10    FILE BIOSIS
           5    FILE BIOTECHABS
           5    FILE BIOTECHDS
           2    FILE BIOTECHNO
           7    FILE CABA
           2    FILE CANCERLIT
          38    FILE CAPLUS
          12    FILE CEN
          75    FILE DGENE
  27 FILES SEARCHED...
           2    FILE DISSABS
           1    FILE DRUGU
           6    FILE EMBASE
           8    FILE ESBIOBASE
           1    FILE FEDRIP
           3    FILE FROSTI
           7    FILE FSTA
          26    FILE IFIPAT
           2    FILE LIFESCI
           6    FILE MEDLINE
           8    FILE PASCAL
           2    FILE PHIN
          43    FILE PROMT
           1    FILE RDISCLOSURE
          13    FILE SCISEARCH
  64 FILES SEARCHED...
           1    FILE TOXCENTER
        8555    FILE USPATFULL
         827    FILE USPAT2
          15    FILE WPIDS
          15    FILE WPINDEX

  33 FILES HAVE ONE OR MORE ANSWERS,    74 FILES SEARCHED IN STNINDEX

L2    QUE PROTEINS AND HEATING AND COOLING AND CYCLE

=> d rank
F1         8555   USPATFULL
F2          827   USPAT2
F3           75   DGENE
F4           43   PROMT
F5           38   CAPLUS
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F6          26   IFIPAT
F7          15   WPIDS
F8          15   WPINDEX
F9          13   SCISEARCH
F10         12   CEN
F11         10   BIOSIS
F12          8   ESBIOBASE
F13          8   PASCAL
F14          7   CABA
F15          7   FSTA
F16          6   EMBASE
F17          6   MEDLINE
F18          5   BIOTECHABS
F19          5   BIOTECHDS
F20          3   FROSTI
F21          2   ANABSTR
F22          2   BIOBUSINESS
F23          2   BIOTECHNO
F24          2   CANCERLIT
F25          2   DISSABS
F26          2   LIFESCI
F27          2   PHIN
F28          1   AGRICOLA
F29          1   BIOENG
F30          1   DRUGU
F31          1   FEDRIP
F32          1   RDISCLOSURE
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=> proteins and heating and cooling and cycle
L3          104 PROTEINS AND HEATING AND COOLING AND CYCLE

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L4            86 DUP REMOVE L3 (18 DUPLICATES REMOVED)

=> d ti 1-25

L4   ANSWER 1 OF 86  PROMT  COPYRIGHT 2005 Gale Group on STN

TI   Trade name directory.

L4   ANSWER 2 OF 86  PROMT  COPYRIGHT 2005 Gale Group on STN
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TI Bioreactor design for mammalian cell cultures: among other things, accurate control of temperature, pH and agitation rate are required for these shear-sensitive cells to metabolize properly. (Feature Report)

L4 ANSWER 3 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI The molecular shuffle: molecular evolution technologies can reduce the cost of goods, deliver intellectual property benefits, and reduce or obviate the need for capital investment. (Biocatalysis)

L4 ANSWER 4 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Formable and settable polymer bone composite and method of production thereof

L4 ANSWER 5 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Wet-fractionation of Phaseolus lunatus seeds: Partial characterization of starch and protein

L4 ANSWER 6 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Starch-free fatty acid complexation in the presence of whey protein

L4 ANSWER 7 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Bulk-micromachined submicroliter-volume PCR chip with very rapid thermal response and low power consumption

L4 ANSWER 8 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
TI Vibrational circular dichroism spectra of protein films: thermal denaturation of bovine serum albumin

L4 ANSWER 9 OF 86 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI A reversible switch for actomyosin-based nanoactuators.

L4 ANSWER 10 OF 86 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 2
TI Studies on egg albumen and whey protein interactions by FT-Raman spectroscopy and rheology.

L4 ANSWER 11 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Trade name directory. (A-O).

L4 ANSWER 12 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New chromatography columns and accessories at the 2003 Pittsburgh Conference, Part II. (Column Watch). (the 54th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy)

L4 ANSWER 13 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Multipurpose fermenter design: critical considerations: a design that accommodates both present and possible future applications can be advantageous to process development and scaleup efforts. (Feature Report).

L4 ANSWER 14 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Aisle by aisle guide. (PITTCON[R] 2003 Bringing Together The Elements of Science).

L4 ANSWER 15 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Flexible processing apparatus for isolating and purifying viruses, soluble **proteins** and peptides from plant sources

L4 ANSWER 16 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on

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TI High-pressure homogenisation of raw bovine milk. Effects on fat globule size distribution and microbial inactivation

L4 ANSWER 17 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
TI Nutritional and carbohydrate characteristics of wheat and chickpea based weaning foods

L4 ANSWER 18 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Studies on egg albumen and whey protein interactions by FT-Raman spectroscopy and rheology

L4 ANSWER 19 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
TI A differential scanning calorimetry study of wheat **proteins**

L4 ANSWER 20 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI An overview of the validation approach for moist heat sterilization, Part 1.

L4 ANSWER 21 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Specifying starches. (Formulation & Ingredient Challenges).(Starches used for many food applications)

L4 ANSWER 22 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Aisle by aisle guide. (Pittcon[R] 2002).

L4 ANSWER 23 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Some physicochemical properties of jackfruit (Artocarpus heterophyllus Lam) seed flour and starch

L4 ANSWER 24 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Product Showcase.

L4 ANSWER 25 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI 39th Annual R&D 100 Awards.(Cover Story)(Industry Overview)

=> d ti 26-50

L4 ANSWER 26 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.(Product Announcement)

L4 ANSWER 27 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.(Mettler-Toledo Inc.)

L4 ANSWER 28 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.(Product Announcement)

L4 ANSWER 29 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Pittcon 2001 Show in Review.

L4 ANSWER 30 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Editor's Choice.

L4 ANSWER 31 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Production of maleic anhydride-4-methylene-1,3-dioxolane copolymer in a process consisting of **cooling** and **heating** **cycles**

L4 ANSWER 32 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 33 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products & Literature.(Product Announcement)(Statistical Data Included)

L4 ANSWER 34 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Chemical Scroll Pumps Are Ideal for Lab Applications.

L4 ANSWER 35 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Product Showcase.

L4 ANSWER 36 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI December New Products.

L4 ANSWER 37 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.(Product Announcement)(Statistical Data Included)

L4 ANSWER 38 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI More liquid ingredients available for poultry use.(Statistical Data Included)

L4 ANSWER 39 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 40 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 41 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 42 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Pittcon 2000 Show in Review.

L4 ANSWER 43 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Pittcon 2000 New Products.

L4 ANSWER 44 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.(pharmaceutical equipment)

L4 ANSWER 45 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 46 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.

L4 ANSWER 47 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI New Products.(Brief Article)

L4 ANSWER 48 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
TI Correlation between the Chaperone-like Activity and Aggregate Size of α-Crystallin with Increasing Temperature

L4 ANSWER 49 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6
TI Temperature-induced changes in the dynamic rheological behavior and size distribution of polymeric **proteins** for glutens from wheat near-isogenic lines differing in HMW glutenin subunit composition

L4 ANSWER 50 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Modification of zein films by incorporation of poly(ethylene glycol)s

=> d ti 50-86

L4 ANSWER 50 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Modification of zein films by incorporation of poly(ethylene glycol)s

L4 ANSWER 51 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
TI Novel biological inhibitors of fouling and scale formation on heat transfer surfaces through genetic engineering

L4 ANSWER 52 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Preparation and characterization of anionic collagen: P(VDF/TrFE) composites.(5th International Conference on Polymer Characterization)

L4 ANSWER 53 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI MATERIALS PROGRESS.

L4 ANSWER 54 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Indoor Air Quality Primer.

L4 ANSWER 55 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Method and apparatus for the purification and detection of nucleic acids and peptides using reversible affinity gel electrophoresis

L4 ANSWER 56 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 8
TI Ultrafast Dynamics of Shock Waves in Polymers and **Proteins**: The Energy Landscape

L4 ANSWER 57 OF 86 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Synthesis and characterization of thermally reversible bioconjugates composed of alpha-chymotrypsin and poly(N-isopropylacrylamide-co-acrylamido-2-deoxy-D-glucose)

L4 ANSWER 58 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Zinc Fingers Touch Off Opportunity.

L4 ANSWER 59 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Developing Large-Scale Cryopreservation Systems for Biopharmaceutical Products, Part 2

L4 ANSWER 60 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Tracking Down the GMOS

L4 ANSWER 61 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Enhancement of resistant starch (RS3) in amylomaize, barley, field pea, and lentil starches

L4 ANSWER 62 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Effect of temperature history on the freeze-thawing process and activity of LDH formulations

L4 ANSWER 63 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Hierarchical approach to flexible docking.

L4 ANSWER 64 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Isolation and physicochemical characterization of fonio (Digitaria exilis) starch

L4 ANSWER 65 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Environmental Monitoring Considerations for Biological Manufacturing

L4 ANSWER 66 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9
TI Rolling Circle DNA Synthesis: Small Circular Oligonucleotides as Efficient Templates for DNA Polymerases

L4 ANSWER 67 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 10
TI Thermoelectrical analysis of the human skin barrier

L4 ANSWER 68 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Lipid and protein thermotropic transition of porcine stratum corneum by microscopic calorimetry and infrared spectroscopy

L4 ANSWER 69 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI DEVELOPMENT OF A NEW FREEZE-DRYING PROCESS

L4 ANSWER 70 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Influence of cyclic temperature changes on protein precrystalline aggregates

L4 ANSWER 71 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Apparatus and method for amino acid-containing species hydrolysis

L4 ANSWER 72 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Carrageenan As A Product Ingredient

L4 ANSWER 73 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Lincomycin-induced alteration in the contents of chlorophyll-protein complexes of dimorphic maize chloroplasts and its effect on the temperature-induced spectral changes

L4 ANSWER 74 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 11
TI S1-nuclease enhancement of the ethidium bromide binding assay of drug-induced DNA interstrand crosslinking in human brain tumor cells

L4 ANSWER 75 OF 86 PROMT COPYRIGHT 2005 Gale Group on STN

TI Product information section. (Clinical Laboratory Reference 1989) (buyers

guide)

L4 ANSWER 76 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 12
TI Temperature dependent spectral changes of chloroplasts

L4 ANSWER 77 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Small amplitude oscillatory testing (SAOT). Instrumentation development and application to coagulation of egg albumen, whey protein concentrate and beef wiener emulsion

L4 ANSWER 78 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 13
TI Oligomerization of intervening sequence RNA molecules in the absence of **proteins**

L4 ANSWER 79 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Some aspects of glucose kinetics in the domestic fowl

L4 ANSWER 80 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Thermal denaturation of ribosomes

L4 ANSWER 81 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Free amino acids in fermented milks

L4 ANSWER 82 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Ultra treatment of milk in a plate plant with indirect **heating**

L4 ANSWER 83 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Relation of protein conformation to biological activity

L4 ANSWER 84 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI The properties of thyroglobulin. V. The properties of denatured thyroglobulin

L4 ANSWER 85 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI Degradative studies on peptides and **proteins**. III. Synthesis of some 2-thiohydantoins as reference compounds

L4 ANSWER 86 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
TI X-ray diffraction studies on protein fibers. I. The large fiber-axis period of collagen

=> d ab bib 85, 83, 31

L4 ANSWER 85 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
AB Glutamic acid γ-Me ester and NH4SCN in AcOH-Ac2O heated 10 min. at 100°, poured into ice H2O, the oil extracted with CHCl3, the extract washed, concentrated in vacuo, and ligroine (b. 40-60°) added yielded 1-acetyl-5-(2-methoxycarbonylethyl)-2-thiohydantoin, m. 102° (from CHCl3-ligroine). From 5'-oxopyrrolidino(1':2',1:5)-2-thiohydantoin in saturated alc. NH3 there separated 5-(2-carbamoylethyl)-2-thiohydantoin, m. 189°; when aqueous NH3 was used, a mixture of products was obtained. 1-Acetyl-5-(1-acetyl-4-glyoxalinylmethyl)-2-thiohydantoin refluxed 2 hrs. in 1:1 EtOH-10N HCl yielded on **cooling** 5-(4-glyoxalinylmethyl)-2-thiohydantoin-HCl, m. 285-8° (decomposition) (from aqueous EtOH). L-Proline Et ester-HCl in dry Me2CO shaken with Et3N, BzNCS in Me2CO added, the mixture heated 15 min., poured into H2O, the oil extracted with EtOAc, the solvent removed, the residual oil heated 3 hrs. in EtOH and 3N HCl, the solution concentrated in vacuo, the residue dissolved in Et2O, the solution washed with NaHCO3 and H2O, dried, and the solvent removed yielded pyrrolidino [1':2',1:5]-2-thiohydantoin (I), m. 161-3°. L-Arginine-HCl and AcNHCS2Me (II) in aqueous EtOH at pH 8.8 gave α-N-acetylthiocarbamoyl-L-arginine-H2O (III), darkened above 230°, finally m. 252°

with effervescence. III refluxed 1.5 hrs. in 2N HCl, the solution concentrated in vacuo, the sirup dissolved in EtOH, and Et2O added gave 5-(3-guanidinopropyl)-2-thiohydantoin-HCl, m. 208-9° (effervescence). Refluxing DL-ornithine-HCl and II in 50% aqueous C5H5N and adjusting the pH to 9 with Et3N gave α-N-acetylthiocarbamoyl-DL-ornithine (IV) (not crystallized). Acid-catalyzed ring closure of IV produced 5-(3-aminopropyl)-2-thiohydantoin-HCl, softening at 180° and m. 210°. ε-N-Benzyloxycarbonyl-L-lysine and NH4SCN refluxed in AcOH-Ac2O afforded the oily intermediate 1-acetyl-5-(4-benzyloxycarbonylaminobutyl)-2-thiohydantoin which on brief hydrolysis gave 5-(4-aminobutyl)-2-thiohydantoin-HCl, m. 235-7° (from aqueous Me2CO). By the procedure used in the synthesis of I, sarcosine Et ester-HCl (V) and BzNCS gave N-benzoylthiocarbamoylsarcosine Et ester (VI), m. 132° (from EtOH). Acid hydrolysis of VI gave 1-methyl-2-thiohydantoin (VII), m. 224-6° (from aqueous EtOH). Poor yields of VII were obtained by **heating** a mixture of II and V or KCNS and V in EtOH. Cysteic acid and II were heated 24 hrs. at 40° with the pH maintained at 8.5; after C6H6 extraction, the aqueous solution was passed through a Dowex 50 resin in the H+ **cycle**, and the column washed with H2O; acid hydrolysis of the combined concentrated washings gave 5-sulfomethyl-2-thiohydantoin as white deliquescent crystals. DL-Methionine sulfone and NH4SCN refluxed in AcOH-Ac2O gave 1-acetyl-5-(2-methylsulfonylethyl)-2-thiohydantoin (VIII), m. 195.5° (from aqueous EtOH). Acid hydrolysis of VIII produced 5-(2-methylsulfonylethyl)-2-thiohydantoin, softening and darkening from 200° and m. 227-8° (from H2O). S-Methylcysteine, treated like DL-methionine sulfone, including the hydrolysis by acid, gave 5-methylthiomethyl-2-thiohydantoin, m. 169-70° (from H2O).

AN 1957:17264 CAPLUS
DN 51:17264
OREF 51:3571b-h
TI Degradative studies on peptides and **proteins**. III. Synthesis of some 2-thiohydantoins as reference compounds
AU Elmore, D. T.; Ogle, J. R.; Toseland, P. A.
CS Univ. Sheffield, UK
SO Journal of the Chemical Society, Abstracts (1956) 192-6
CODEN: JCSAAZ; ISSN: 0590-9791
DT Journal
LA Unavailable

L4 ANSWER 83 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
AB If the temperature of pepsinogen is raised to 70° the loss of susceptibility of pepsinogen to activation to pepsin follows closely the conformational changes as measured by optical rotation and absorption. On **cooling**, the potential pepsin activity and absorption at 244 mμ are restored completely but only 60% of the sp. optical rotation is recovered. The 1st-order rate constant of activation of a 1% pepsinogen solution kept at 60° for 15 min. is 23 + 10-2 min.-1 In the presence of 1-2M urea, k = 12 + 10-2, and in 6M, 7 + 10-2. If the **heating-cooling cycle** is repeated the potential pepsin activity decreases progressively to 75%, k decreases to 10 + 10-2. The sp. optical rotation always reaches a constant value of -220°. Most of the tyrosine groups and 1/2 of the lysine groups ionize normally; the pK values approach 10.4 if the titrations are carried out in the presence of urea which alters the conformation of the zymogen.

AN 1964:54006 CAPLUS
DN 60:54006
OREF 60:9545e-f
TI Relation of protein conformation to biological activity
AU Perlmann, Gertrude E.
CS Rockefeller Inst., New York, NY
SO Biochemical Journal (1963), 89(1), 45P

CODEN: BIJOAK; ISSN: 0264-6021
DT Journal
LA Unavailable

L4 ANSWER 31 OF 86 CAPLUS COPYRIGHT 2005 ACS on STN
AB Maleic anhydride-4-methylene-1,3-dioxolane copolymer is produced by reacting 4-methylene-1,3-dioxolane with excess (≤ 1% mol) of maleic anhydride to form an equimolar complex, followed by copolymn. in bulk while **cooling** to (-4)-(+4)°. The mixture is kept at this temperature, heated to a temperature ≤ 80±2°, then once again cooled and heated. The **cycle** is repeated at least one time maintaining the **cooling** to **heating** time ratio from 1 to 5, and finally distilling the excessive amount of maleic anhydride by **heating** the mixture in vacuum. The copolymer can be used as a hardener in polymeric compns., varnishes, mastics, as a reagent for synthesis of surfactants, ion-exchange polymers and flocculants. Thus, the synthesized copolymer was hydrolyzed and used as a flocculant in a cottage cheese production line to precipitate whey **proteins**.
AN 2002:491888 CAPLUS
DN 137:311663
TI Production of maleic anhydride-4-methylene-1,3-dioxolane copolymer in a process consisting of **cooling** and **heating** **cycles**
IN Bagaev, S. I.; Kstenina, E. N.
PA Russia
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2170239	C2	20010710	RU 1999-119152	19990901
PRAI	RU 1999-119152		19990901		

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	37.19	40.94

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                  STN AnaVist, now available
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 NEWS  5  AUG 30  CA/CAplus -Increased access to 19th century research documents
 NEWS  6  AUG 30  CASREACT - Enhanced with displayable reaction conditions
 NEWS  7  SEP 09  ACD predicted properties enhanced in REGISTRY/ZREGISTRY
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                  to core patent offices
 NEWS 10  OCT 06  STN AnaVist workshops to be held in North America

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               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 10:09:49 ON 12 OCT 2005

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
       AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
       BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
       CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 10:10:19 ON 12 OCT 2005

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> misfolded (w) protein (p) blood
          0*  FILE ADISNEWS
          0*  FILE ANTE
          0*  FILE AQUALINE
          0*  FILE BIOCOMMERCE
          0*  FILE BIOENG
          3   FILE BIOSIS
          1*  FILE BIOTECHABS
          1*  FILE BIOTECHDS
          2*  FILE BIOTECHNO
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  17 FILES SEARCHED...
          7   FILE CAPLUS
          0*  FILE CEABA-VTB
          0*  FILE CIN
  23 FILES SEARCHED...
          1   FILE DGENE
  27 FILES SEARCHED...
          4   FILE EMBASE
  33 FILES SEARCHED...
          2*  FILE ESBIOBASE
          3*  FILE FEDRIP
          0*  FILE FOMAD
          0*  FILE FOREGE
          1*  FILE FROSTI
          0*  FILE FSTA
          1   FILE GENBANK
          2   FILE IFIPAT
          0*  FILE KOSMET
          1   FILE LIFESCI
          5   FILE MEDLINE
          0*  FILE NTIS
          0*  FILE NUTRACEUT
          0*  FILE PASCAL
  54 FILES SEARCHED...
          0*  FILE PHARMAML
          2   FILE PHIN
          3   FILE PROMT
          4   FILE SCISEARCH
          3   FILE TOXCENTER
          8   FILE USPATFULL
          1   FILE USPAT2
          0*  FILE WATER
          1   FILE WPIDS
          1   FILE WPINDEX

  22 FILES HAVE ONE OR MORE ANSWERS,   74 FILES SEARCHED IN STNINDEX

L1   QUE MISFOLDED (W) PROTEIN (P) BLOOD

=> d rank
F1            8   USPATFULL
F2            7   CAPLUS
F3            5   MEDLINE
F4            4   EMBASE
F5            4   SCISEARCH
F6            3   BIOSIS
F7            3   PROMT
F8            3   TOXCENTER
F9            3*  FEDRIP
F10           2   IFIPAT
F11           2   PHIN
F12           2*  BIOTECHNO
F13           2*  ESBIOBASE
F14           1   DGENE
F15           1   GENBANK
F16           1   LIFESCI
F17           1   USPAT2
F18           1   WPIDS
F19           1   WPINDEX
F20           1*  BIOTECHABS
F21           1*  BIOTECHDS
F22           1*  FROSTI
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=> file caplus medline embase scisearch biosis toxcenter
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    10.62      10.83

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=> misfolded (w) protein (p) blood
L2          26 MISFOLDED (W) PROTEIN (P) BLOOD

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=> misfolded (w) protein (p) blood
COMMAND INTERRUPTED
L3          22 MISFOLDED (W) PROTEIN (P) BLOOD
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Desk by telephone or via SEND in the STNMAIL file.

=> d ti 1-22

L3   ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Method of isolation and self-assembly of small protein particles from
     blood and other biological materials

L3   ANSWER 2 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Protein folding pathology in domestic animals

L3   ANSWER 3 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Isolation and self-assembly of small particles of misfolded
     proteins, proteons, from blood using metallic
     nanocluster proteon nucleation centers for diagnostic and therapeutic use

L3   ANSWER 4 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Distribution of the serine protease HtrA1 in normal human tissues

L3   ANSWER 5 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Misfolded protein sensor method

L3   ANSWER 6 OF 22  CAPLUS  COPYRIGHT 2005 ACS on STN
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TI PS-341, a proteasome inhibitor for cancer treatment

L3 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis. GRP78/BiP and novel genes

L3 ANSWER 8 OF 22 MEDLINE on STN
TI Protein folding pathology in domestic animals.

L3 ANSWER 9 OF 22 MEDLINE on STN
TI Is mad cow disease caused by a bacteria?.

L3 ANSWER 10 OF 22 MEDLINE on STN
TI Distribution of the serine protease HtrA1 in normal human tissues.

L3 ANSWER 11 OF 22 MEDLINE on STN
TI Erythroid band 3 variants and disease.

L3 ANSWER 12 OF 22 MEDLINE on STN
TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis. GRP78/BiP and novel genes.

L3 ANSWER 13 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Is mad cow disease caused by a bacteria?

L3 ANSWER 14 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Distribution of the serine protease HtrA1 in normal human tissues

L3 ANSWER 15 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Erythroid band 3 variants and disease

L3 ANSWER 16 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis - GRP78/BiP and novel genes

L3 ANSWER 17 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Is mad cow disease caused by a bacteria?.

L3 ANSWER 18 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Distribution of the serine protease HtrA1 in normal human tissues.

L3 ANSWER 19 OF 22 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Homocysteine-respondent genes in vascular endothelial cells identified by differential display analysis.

L3 ANSWER 20 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN
TI Protein folding pathology in domestic animals

L3 ANSWER 21 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN
TI Isolation and self-assembly of small particles of **misfolded proteins**, proteons, from **blood** using metallic nanocluster proteon nucleation centers for diagnostic and therapeutic use

L3 ANSWER 22 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN
TI PS-341, a proteasome inhibitor for cancer treatment

=> d ab bib 21, 15, 5, 2

L3 ANSWER 21 OF 22 TOXCENTER COPYRIGHT 2005 ACS on STN
AB Compns. and methods for the isolation and manipulation of misfolded, or partially **misfolded, proteins** present in **blood** and other biol. materials are provided. In one aspect of the invention, the compns., hereinafter termed 'proteons' are comprised of **misfolded proteins**. Also provided are compns. and methods for the isolation and manipulation of proteon nucleation centers (PNCs) upon which the proteons of the present in **blood** and other biol. materials form. The PNCs are comprised of metallic nanoclusters. The PNCs of the invention are pro-apoptotic when added to cultured animal cells. Accordingly, pro-apoptotic compns. and methods of their production are also provided. The invention can be used for diagnosis of conformational diseases and congophilic disorders.
AN 2004:102152 TOXCENTER
CP Copyright 2005 ACS
DN CA14020317674K
TI Isolation and self-assembly of small particles of **misfolded proteins**, proteons, from **blood** using metallic nanocluster proteon nucleation centers for diagnostic and therapeutic use
AU Vodyanoy, Vitaly J.; Samoylov, Alexandre M.; Pustovyy, Oleg M.
CS ASSIGNEE: Auburn University
PI WO 2004030622 A2 15 Apr 2004
SO (2004) PCT Int. Appl., 45 pp.
CODEN: PIXXD2.
CY UNITED STATES
DT Patent
FS CAPLUS
OS CAPLUS 2004:310955
LA English
ED Entered STN: 20040504
Last Updated on STN: 20051004

L3 ANSWER 15 OF 22 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AB This review describes some of the naturally occurring band 3 (AEI) variants and their association with disease. Southeast Asian Ovalocytic (SAO) band 3, an inactive and **misfolded protein**, is probably only maintained in certain populations because it provides protection against the cerebral form of malaria. Many mutations that cause instability of band 3, either at the mRNA or protein level, result in hereditary spherocytosis (HS). Some polymorphisms alter amino acid residues in the extracellular loops of band 3 and are associated with **blood** group antigens. A truncated form of AEI is expressed in kidney cells and certain AEI mutations are associated with distal renal tubular acidosis (dRTA). The molecular basis of these variants and their effect on the structure and function of band 3 are discussed. The association between band 3 and glycophorin A (GPA) and the structure/function changes of band 3 in the absence of GPA are also described.
AN 2000:462471 SCISEARCH
GA The Genuine Article (R) Number: 326VV
TI Erythroid band 3 variants and disease
AU Bruce L J (Reprint); Tanner M J A
CS Univ Bristol, Dept Biochem, Univ Walk, Bristol BS8 1TD, Avon, England (Reprint); Univ Bristol, Dept Biochem, Bristol BS8 1TD, Avon, England
CYA England
SO BEST PRACTICE & RESEARCH CLINICAL HAEMATOLOGY, (DEC 1999) Vol. 12, No. 4, pp. 637-654.
ISSN: 1521-6926.
PB BAILLIERE TINDALL, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND.
DT General Review; Journal
LA English

REC Reference Count: 148
ED Entered STN: 2000
Last Updated on STN: 2000
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
AB A catalytic conformational sensor method for detecting abnormal proteins and proteinaceous particles. The method is based on the interaction of a peptide fragment or probe with an abnormal proteinaceous particle. The interaction catalyzes transformation of the probe to a predominately beta sheet conformation and allows the probe to bind to the abnormal proteinaceous particle. This in turn, catalyzes propagation of a signal associated with the test sample-bound probe. As a result signals can be propagated even from samples containing very low concns. of abnormal proteinaceous particles. The peptide probes can be designed to bind to a desired peptide sequence or can even be based on dendrimer structure to control further aggregate propagation.
AN 2002:927721 CAPLUS
DN 138:12465
TI Misfolded protein sensor method
IN Orser, Cindy; Grosset, Anne; Davidson, Eugene
PA Arete Associates, USA
SO PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002097444	A2	20021205	WO 2002-US17212	20020530
	WO 2002097444	A3	20031030		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2448981	AA	20021205	CA 2002-2448981	20020530
	EP 1395833	A2	20040310	EP 2002-749544	20020530
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004536296	T2	20041202	JP 2003-500572	20020530
PRAI	US 2001-295456P	P	20010531		
	WO 2002-US17212	W	20020530		

L3 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
AB A review. Fibrillar proteins form structural elements of cells and the extracellular matrix. Pathol. lesions of fibrillar microanatomical structures, or secondary fibrillar changes in globular proteins are well known. A special group concerns histol. amorphous deposits, amyloid. The major characteristics of amyloid are: apple green birefringence after Congo red staining of histol. sections, and non-branching 7-10 nm thick fibrils on electron microscopy revealing a high content of cross β pleated sheets. About 25 different types of amyloid were characterized. In animals, AA-amyloid is the most frequent type. Other types of amyloid in animals represent: AIAPP (in cats), AApoAI, AApoAII, localized AL-amyloid, amyloid in odontogenic or mammary tumors and amyloid in the brain. In old dogs Aβ and in sheep APrPsc-amyloid can be encountered. AA-amyloidosis is a systemic disorder with a precursor in **blood**, acute phase serum amyloid A (SAA). In chronic inflammatory

processes AA-amyloid can be deposited. A rapid crystallization of SAA to amyloid fibrils on small beta-sheeted fragments, the 'amyloid enhancing factor' (AEF), is known and the AEF was shown to penetrate the enteric barrier. Amyloid fibrils can aggregate from various precursor proteins in vitro in particular at acidic pH and when proteolytic fragments are formed. Mol. chaperones influence this process. Tissue data point to amyloid fibrillogenesis in lysosomes and near cell surfaces. A comparison can be made of the fibrillogenesis in prion diseases and in enhanced AA-amyloidosis. In the reactive form, acute phase SAA is the supply of the precursor protein, whereas in the prion diseases, cell membrane proteins form a structural source. Aβ-amyloid in brain tissue of aged dogs showing signs of dementia forms a canine counterpart of senile dementia of the Alzheimer type (ccSDAT) in man. **Misfolded proteins** remain potential food hazards. Developments concerning prevention of amyloidogenesis and therapy of amyloid deposits are shortly commented.

AN 2004:928068 CAPLUS
DN 142:4097
TI Protein folding pathology in domestic animals
AU Gruys, Erik
CS Section of Domestic Animal Pathology, Department of Pathobiology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, Neth.
SO Journal of Zhejiang University, Science (2004), 5(10), 1226-1238
CODEN: JZUSFR; ISSN: 1009-3095
PB Zhejiang University Press
DT Journal; General Review
LA English
RE.CNT 132 THERE ARE 132 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT